









	L Z,Z33	L Z,Z33	L 2,433	L Z,143
PRODUCT INFORMATION				
FRAME SIZES	M (44cm) - L (48cm)	S (44cm) - M (49cm) - L (54cm)	S (42cm) - M (46cm) - L (50cm)	M (50cm) - L (55cm)
WEIGHT	Approx. 25kg	Approx. 28kg	Approx. 26kg	Approx. 28kg
MAXIMUM BIKE & RIDER WEIGHT	120kg	190Kg	120kg	120kg
	Powder Painting Scratch Resistant	Powder Painting Scratch Resistant	Powder Painting Scratch Resistant	Powder Painting Scratch Resistant
PAINTING	with Matte or Glossy Varnish White Star with glossy varnish Happy	with Matte or Glossy Varnish Hock Grey with matte finish Dark	with Matte or Glossy Varnish	with Matte or Glossy Varnish
COLOUR(s)		Olive with matte finish Emerald Green with glossy varnish	Black Fog with Matte Finish Moon Grey Gloss with Glossy finish	Black Suit with matte finish
FRAME				
FRAME	Aluminium Low Step	Low Step Aluminium	MTB Hardtail Aluminium	Aluminium Low Step
SUSPENSION	-	Sr Suntour Raindon 34 Air Travel 120mm Axle Boost 110mm 27,5''	Sr Suntour Raidon 34 Air Travel 130mm Boost 110mm 27,5''	-
FORK	Rigid Alloy 28"	-	-	Rigid Alloy 28"
HEADSET	Acros 1.5" to 1-1/8" Tapered SHIS	FSA 1.5" to 1-1/8" Tapered SHIS	FSA 1.5" to 1-1/8" Tapered SHIS	FSA 1.5" to 1-1/8" Tapered SHIS
E-BIKE SYSTEM				
DRIVE UNIT	SHIMANO STEPS E5000 40Nm	BROSE DRIVE S MAG Horizontal 90Nm	BROSE DRIVE S ALU 90Nm	BROSE DRIVE C Horizontal 50Nm
	418Wh 36V - Semi-integrated in	522Wh 36V - Down Tube Integration -	Snake Battery - 504Wh 36V -	504Wh 36V - Semi-Integrated on
BATTERY	downtube - Removable	Removable	Integrated on Downtube - Removable	Downtube - Removable
RANGE	40km to 100km	40km to 100km	40km to 100km	40km to 100km
BATTERY LOCK KEY	Yes	Yes	Yes	Yes
CHARGER	2A - 6 hours total charge time	4A - 3 to 6 hours total charge time	2A - 7 hours total charge time	4A - 4 to 5 hours total charge time
DISPLAY	SHIMANO SC-E6100	BROSE Allround	BROSE Allround	MARQUARDT Display
COCKPIT				
HANDLEBAR	AL 660mm / 31.8mm (Curved)	AL 780mm / 31.8mm / Rise 20mm (Straight) FSA V-Drive 740mm / 31.8mm (Straight)	FSA V-Drive 740mm / 31.8mm (Straight)	AL 660mm / 31.8mm (Curved)
STEM	AL 90mm - 31.8mm - adjustable 0- 90°	AL 50mm - 31.8mm - 0°	FSA V-Drive 60mm/ 31.8mm / ±6°	AL 90mm - 31.8mm - adjustable 0- 90°
GRIPS	HERRMANS DD36	ERGON GA30	ERGON GA30	ERGOTECH EG-AMBITION
WHEELSET				
WITELESET		CONTINIENTAL May note in Line	CONTINENTAL May rate in 1/in a	
TYRES	CONTINENTAL Ride Cruiser 28"x2,0"	CONTINENTAL Mountain king 27,5"x2,6" (Tubeless Ready)	CONTINENTAL Mountain King 27,5"x2,6"	CONTINENTAL Ride Cruiser 28"x2,2"
WHEEL SIZE	28"	27,5"	27,5"	28"
RIMS	Alloy Double Wall 25mm	Alloy Double Wall 30mm (Tubeless Ready)	Alloy Double Wall 25mm	Alloy Double 25mm
SPOKES	Black Stainless Steel	Black Stainless Steel	Black Stainless Steel	Black Stainless Steel
FRONT HUB	SHIMANO HB-MT400 100 Thru-axle 15mm	SHIMANO HB-MT400-B Boost 110 Thru-axle 15mm	SHIMANO HB-MT400-B Boost 110 Thru-axle 15mm	SHIMANO HB-MT400 100 Thru-axle 15mm
REAR HUB	SHIMANO FH-TX505 135mm	SHIMANO Deore M6000 135mm	SHIMANO HB-MT400-B Boost 148 Thru-axle 12mm	SHIMANO NEXUS SG-C6001 135mm
DRIVETRAIN & BRAKES			THE GAR LETTIN	
BRAKES	SHIMANO Hydraulic MT200	SHIMANO Hydraulic MT400	SHIMANO Hydraulic MT200	CLARKS Hydraulic M2
BRAKE ROTOR - Front	SHIMANO SM-RT 180mm	SHIMANO SM-RT30 203mm	SHIMANO SM-RT10 180mm	CL HJ-DXR1814 180mm
BRAKE ROTOR - Rear	SHIMANO SM-RT 160mm	SHIMANO SM-RT30 180mm	SHIMANO SM-RT10 180mm	CL HJ-DXR1814 180mm
REAR DERRAILEUR	SHIMANO Altus 9S	SHIMANO Deore 11S	SHIMANO Deore 10S	-
CASSETTE	SHIMANO Altus 9S 11-36T	SHIMANO Deore 11S 11-51T	SHIMANO Deore 10S 11-42T	-
SHIFTERS				SHIMANO NEXUS 8
CHAINRING	SHIMANO Altus 9S	SHIMANO Deore 11S	SHIMANO Deore 10S	JI III I IAINO INE NOS O
CHAINKING	SHIMANO Altus 9S SHIMANO SN-CRE50 38T	SHIMANO Deore 11S MIRANDA ChainFlow 3D BCD104 38T	SHIMANO Deore 10S SAMOX BCD 104 36T	MIRANDA ChainFlow BCD 104 38T
CRANK CHAIN	SHIMANO SN-CRE50 38T	MIRANDA ChainFlow 3D BCD104 38T	SAMOX BCD 104 36T	MIRANDA ChainFlow BCD 104 38T
CRANK CHAIN	SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175	MIRANDA ChainFlow 3D BCD104 38T SAMOX Shape 170/0	SAMOX BCD 104 36T SAMOX Shape 175/5	MIRANDA ChainFlow BCD 104 38T SAMOX Shape 175
CRANK CHAIN CHAINGUARD	SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-HG53	MIRANDA ChainFlow 3D BCD104 38T SAMOX Shape 170/0 KMC E11 Turbo e-bike series	SAMOX BCD 104 36T SAMOX Shape 175/5 SHIMANO CN-E6090	MIRANDA ChainFlow BCD 104 38T SAMOX Shape 175 SHIMANO CN-NX10
CRANK CHAIN CHAINGUARD SAFETY & ACESSORIES	SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-HG53	MIRANDA ChainFlow 3D BCD104 38T SAMOX Shape 170/0 KMC E11 Turbo e-bike series	SAMOX BCD 104 36T SAMOX Shape 175/5 SHIMANO CN-E6090	MIRANDA ChainFlow BCD 104 38T SAMOX Shape 175 SHIMANO CN-NX10
CRANK CHAIN CHAINGUARD SAFETY & ACESSORIES RACK	SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-H653 Yes - SKS	MIRANDA ChainFlow 3D BCD104 38T SAMOX Shape 170/0 KMC E11 Turbo e-bike series Yes - FSA	SAMOX BCD 104 36T SAMOX Shape 175/5 SHIMANO CN-E6090	MIRANDA ChainFlow BCD 104 38T SAMOX Shape 175 SHIMANO CN-NX10 Yes - HEBIE
CRANK CHAIN CHAINGUARD SAFETY & ACESSORIES RACK FRONT LIGHT	SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-H653 Yes - SKS ATRANVELO Tour AVS (max.: 25Kg)	MIRANDA ChainFlow 3D BCD104 38T SAMOX Shape 170/0 KMC E11 Turbo e-bike series Yes - FSA ATRANVELO Tour AVS (max: 25Kg)	SAMOX BCD 104 36T SAMOX Shape 175/5 SHIMANO CN-E6090 Yes - FSA	MIRANDA ChainFlow BCD 104 38T SAMOX Shape 175 SHIMANO CN-NXIO Yes - HEBIE ATRANVELO City AVS (max.: 25Kg)
CRANK CHAIN CHAINGUARD SAFETY & ACESSORIES RACK FRONT LIGHT REAR LIGHT	SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-H653 Yes - SKS ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector	MIRANDA ChainFlow 3D BCD104 38T SAMOX Shape 170/0 KMC E11 Turbo e-bike series Yes - FSA ATRANVELO Tour AVS (max.: 25Kg) SPANNINGA Axendo 40 with reflector	SAMOX BCD 104 36T SAMOX Shape 175/5 SHIMANO CN-E6090 Yes - FSA	MIRANDA ChainFlow BCD 104 38T SAMOX Shape 175 SHIMANO CN-NX10 Yes - HEBIE ATRANVELO City AVS (max.: 25Kg) AXA Blueline 30 with reflector
CRANK CHAIN CHAINGUARD SAFETY & ACESSORIES RACK FRONT LIGHT REAR LIGHT KICKSTAND	SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-HG53 Yes - SKS ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILLY with reflector ATRANVELO Dux	MIRANDA ChainFlow 3D BCD104 38T SAMOX Shape 170/0 KMC E11 Turbo e-bike series Yes - FSA ATRANVELO Tour AVS (max.: 25Kg) SPANNINGA Axendo 40 with reflector PICCADILY with reflector ATRANVELO Dux	SAMOX BCD 104 36T SAMOX Shape 175/5 SHIMANO CN-E6090 Yes - FSA	MIRANDA ChainFlow BCD 104 38T SAMOX Shape 175 SHIMANO CN-NX10 Yes - HEBIE ATRANVELO City AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILY with reflector ATRANVELO Dux
CRANK CHAIN CHAINGUARD SAFETY & ACESSORIES RACK FRONT LIGHT REAR LIGHT KICKSTAND MUDGUARD	SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-H653 Yes - SKS ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILLY with reflector ATRANVELO Dux SKS	MIRANDA ChainFlow 3D BCD104 38T SAMOX Shape 170/0 KMC E11 Turbo e-bike series Yes - FSA ATRANVELO Tour AVS (max.: 25Kg) SPANNINGA Axendo 40 with reflector PICCADILY with reflector ATRANVELO Dux SKS	SAMOX BCD 104 36T SAMOX Shape 175/5 SHIMANO CN-E6090 Yes - FSA	MIRANDA ChainFlow BCD 104 38T SAMOX Shape 175 SHIMANO CN-NX10 Yes - HEBIE ATRANVELO City AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILY with reflector ATRANVELO Dux SKS
CRANK CHAIN CHAINGUARD SAFETY & ACESSORIES RACK FRONT LIGHT REAR LIGHT KICKSTAND MUDGUARD BELL	SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-HG53 Yes - SKS ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILLY with reflector ATRANVELO Dux SKS Yes	MIRANDA ChainFlow 3D BCD104 38T SAMOX Shape 170/0 KMC E11 Turbo e-bike series Yes - FSA ATRANVELO Tour AVS (max.: 25Kg) SPANNINGA Axendo 40 with reflector PICCADILY with reflector ATRANVELO Dux SKS Yes	SAMOX BCD 104 36T SAMOX Shape 175/5 SHIMANO CN-E6090 Yes - FSA Yes	MIRANDA ChainFlow BCD 104 38T SAMOX Shape 175 SHIMANO CN-NX10 Yes - HEBIE ATRANVELO City AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILY with reflector ATRANVELO Dux SKS Yes
CRANK CHAIN CHAINGUARD SAFETY & ACESSORIES RACK FRONT LIGHT REAR LIGHT KICKSTAND MUDGUARD BELL BOTTLE CAGE	SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-HG53 Yes - SKS ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILLY with reflector ATRANVELO Dux SKS Yes Not included. Frame not prepared.	MIRANDA ChainFlow 3D BCD104 38T SAMOX Shape 170/0 KMC E11 Turbo e-bike series Yes - FSA ATRANVELO Tour AVS (max.: 25Kg) SPANNINGA Axendo 40 with reflector PICCADILY with reflector ATRANVELO Dux SKS Yes Not included. Sold separately.	SAMOX BCD 104 36T SAMOX Shape 175/5 SHIMANO CN-E6090 Yes - FSA Yes Not included. Sold separately.	MIRANDA ChainFlow BCD 104 38T SAMOX Shape 175 SHIMANO CN-NX10 Yes - HEBIE ATRANVELO City AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILY with reflector ATRANVELO Dux SKS Yes Not included. Sold separately.
CRANK CHAIN CHAINGUARD SAFETY & ACESSORIES RACK FRONT LIGHT REAR LIGHT KICKSTAND MUDGUARD BELL BOTTLE CAGE SADDLE	SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-HG53 Yes - SKS ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILLY with reflector ATRANVELO Dux SKS Yes	MIRANDA ChainFlow 3D BCD104 38T SAMOX Shape 170/0 KMC E11 Turbo e-bike series Yes - FSA ATRANVELO Tour AVS (max.: 25Kg) SPANNINGA Axendo 40 with reflector PICCADILY with reflector ATRANVELO Dux SKS Yes	SAMOX BCD 104 36T SAMOX Shape 175/5 SHIMANO CN-E6090 Yes - FSA Yes Not included. Sold separately. SELLE ROYAL Shadow FSA Gossamer 350mm 31.6mm	MIRANDA ChainFlow BCD 104 38T SAMOX Shape 175 SHIMANO CN-NX10 Yes - HEBIE ATRANVELO City AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILY with reflector ATRANVELO Dux SKS Yes
CRANK	SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-HG53 Yes - SKS ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILLY with reflector ATRANVELO Dux SKS Yes Not included. Frame not prepared. SELLE ROYAL Rio Gel	MIRANDA ChainFlow 3D BCD104 38T SAMOX Shape 170/0 KMC E11 Turbo e-bike series Yes - FSA ATRANVELO Tour AVS (max.: 25Kg) SPANNINGA Axendo 40 with reflector PICCADILY with reflector ATRANVELO Dux SKS Yes Not included. Sold separately. SELLE ROYAL Essenza Moderate Gel	SAMOX BCD 104 36T SAMOX Shape 175/5 SHIMANO CN-E6090 Yes - FSA Yes Not included. Sold separately. SELLE ROYAL Shadow	MIRANDA ChainFlow BCD 104 38T SAMOX Shape 175 SHIMANO CN-NX10 Yes - HEBIE ATRANVELO City AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILY with reflector ATRANVELO Dux SKS Yes Not included. Sold separately. SELLE ROYAL Rio Gel
CRANK CHAIN CHAINGUARD SAFETY & ACESSORIES RACK FRONT LIGHT REAR LIGHT KICKSTAND MUDGUARD BELL BOTTLE CAGE SADDLE SEAT POST	SHIMANO SN-CRE50 38T SHIMANO FC-E5010 - 175 SHIMANO CN-HG53 Yes - SKS ATRANVELO Tour AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILLY with reflector ATRANVELO Dux SKS Yes Not included. Frame not prepared. SELLE ROYAL Rio Gel AL Black 350mm 30,9mm/15mm	MIRANDA ChainFlow 3D BCD104 38T SAMOX Shape 170/0 KMC E11 Turbo e-bike series Yes - FSA ATRANVELO Tour AVS (max.: 25Kg) SPANNINGA Axendo 40 with reflector PICCADILY with reflector ATRANVELO Dux SKS Yes Not included. Sold separately. SELLE ROYAL Essenza Moderate Gel AL Black 350mm 31,6mm/15mm	SAMOX BCD 104 36T SAMOX Shape 175/5 SHIMANO CN-E6090 Yes - FSA Yes Not included. Sold separately. SELLE ROYAL Shadow FSA Gossamer 350mm 31.6mm /20mm	MIRANDA ChainFlow BCD 104 38T SAMOX Shape 175 SHIMANO CN-NX10 Yes - HEBIE ATRANVELO City AVS (max.: 25Kg) AXA Blueline 30 with reflector PICCADILY with reflector ATRANVELO Dux SKS Yes Not included. Sold separately. SELLE ROYAL Rio Gel AL Black 350mm 27.2mm/15mm

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